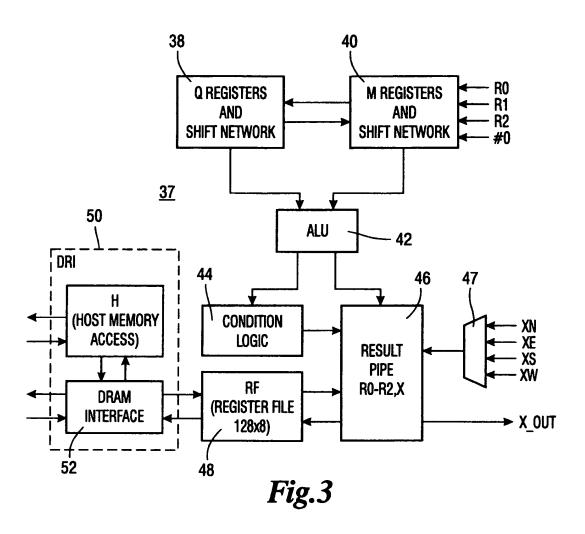
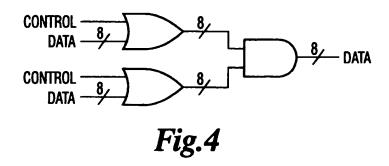


Fig.2





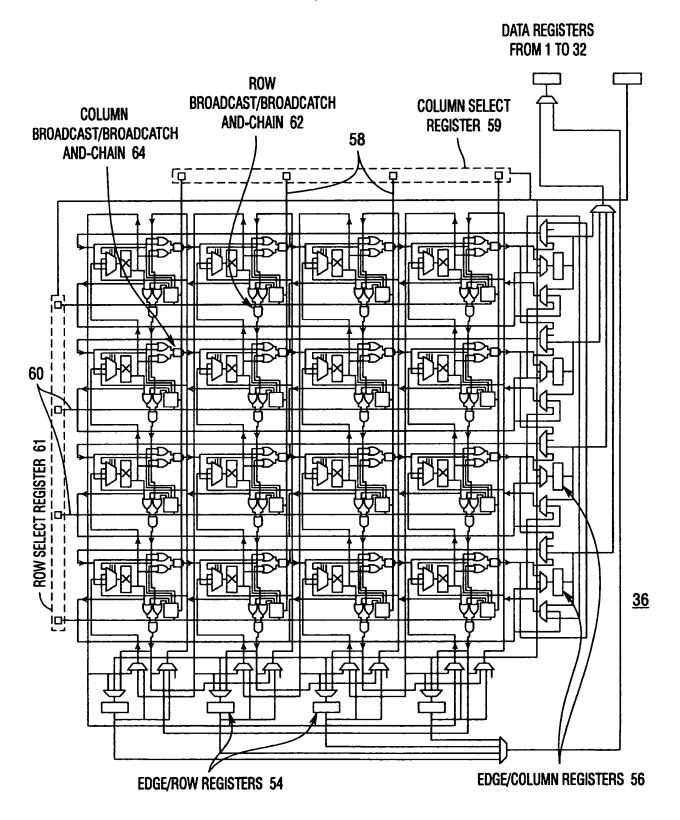
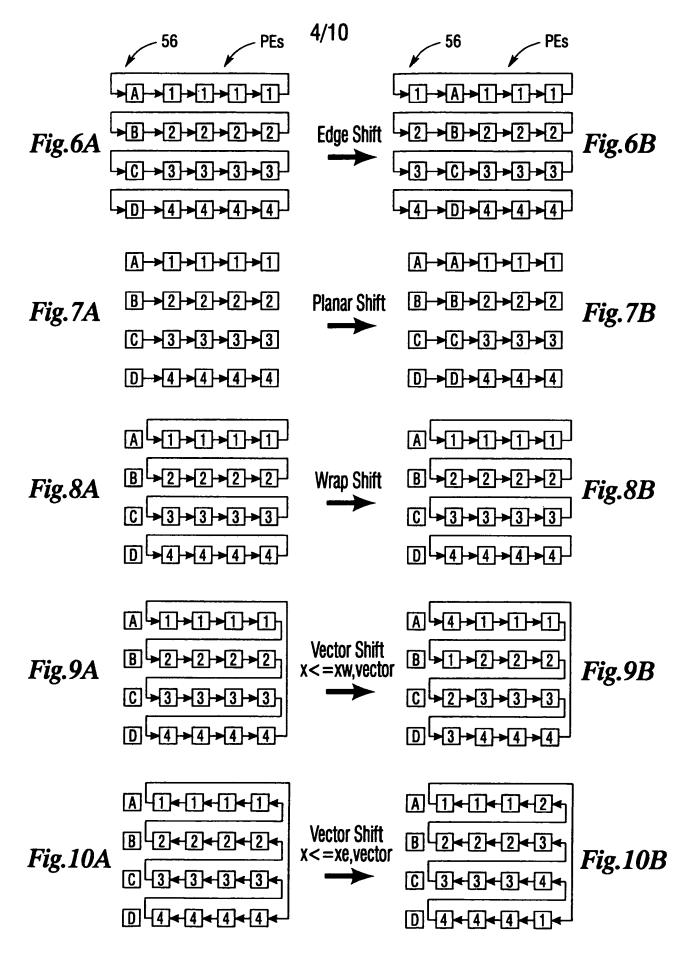
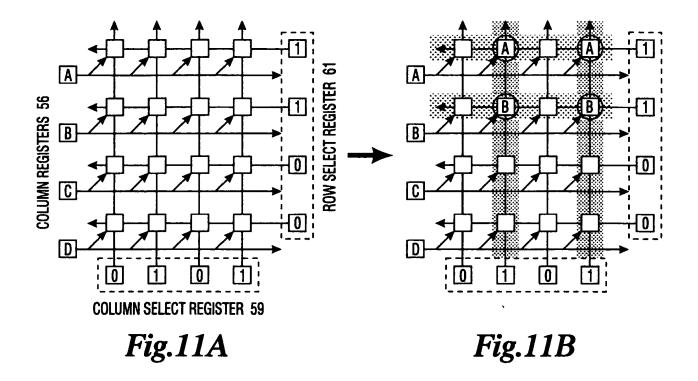
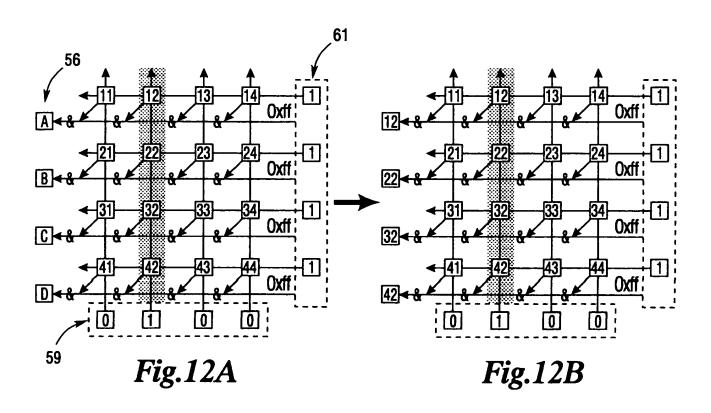


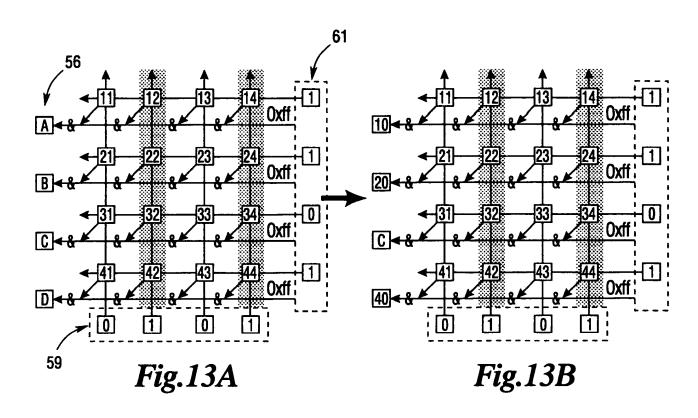
Fig.5

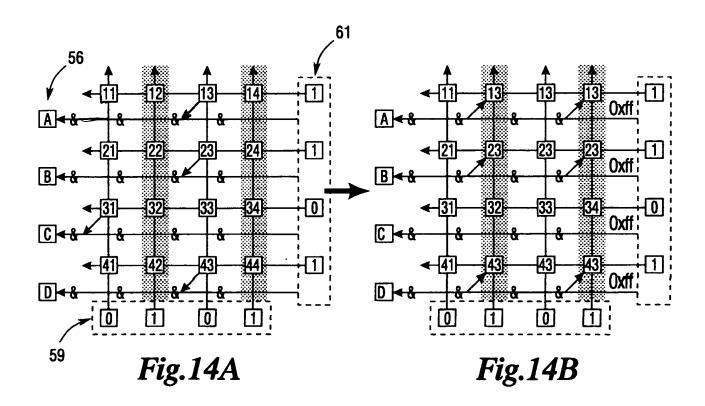




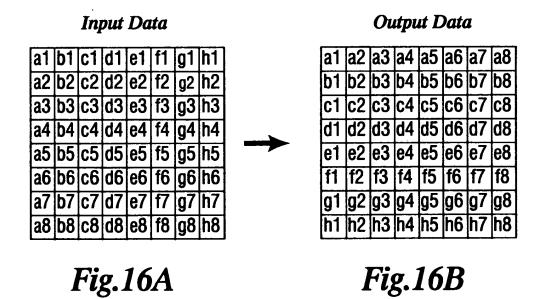


6/10





				X= C=					<i></i>	ا ـــ ا	1	L — — I	3	
a	b	С	d	R=0	a	е	i	m		q	I	h	d	Y=3
е	f	g	h	1	b	f	j	n		р	k	g	C	2
i	j	k	Ι	2	C	g	k	р		n	j	f	b	1
m	n	р	q	3	d	h		q		m		е	a	0
Fi	ig.	13	5 <i>A</i>		F	ig.	1:	5 <i>E</i>	,	Fi	ig.	15	5 <i>C</i>	7



	1	2	3	4	5	6	7	8	
Fig.17A	a 1	b1	с1	d1	e1	f1	g1	h1	ORIGINAL DATA
Fig.17B	h2	a2	b2	c2	d2	e2	f2	g2	1st PAIR OF SHIFTS
Fig.17C	g3	h3	a 3	b3	c3	d3	e3	f3	2nd PAIR OF SHIFTS
Fig.17D	f4	g4	h4	a4	b4	c4	d4	e4	3rd PAIR OF SHIFTS
Fig.17E	e 5	f5	g 5	h5	a5	b5	с5	d 5	4th PAIR OF SHIFTS
Fig.17F	d6	e6	f6	g6	h6	a6	b6	c6	5th PAIR OF SHIFTS
Fig.17G	c7	d7	e7	f7	g7	h7	a7	b7	6th PAIR OF SHIFTS
Fig.17H	b8	с8	d8	е8	f8	g8	h8	a8	7th PAIR OF SHIFTS

0	1	2	3	4	5	6	7
7	0	1	2	3	4	5	6
6	7	0	1	2	3	4	5
5	6	7	0	1	2	3	4
4	5	6	7	0	1	2	3
3	4	5	6	7	0	1	2
2	3	4	5	6	7	0	1
1	2	3	4	5	6	7	0

Fig.18

9/10

	STEP 1 - INITIALIZE									
INPUT DATA	a 1	b1	c1	d1	e1	f1	g 1	h1		
OUTPUT (TRANSPOSED) DATA									<i>Fig.19A</i>	
COUNT	0	1	2	3	4	5	6	7	O	
	STEP 2 - TEST (LOAD A1)									
INPUT DATA	a1	b1	c1	d1	e1	f1	g1	h1		
OUTPUT (TRANSPOSED) DATA	a 1								<i>Fig.19B</i>	
COUNT	0	1	2	3	4	5	6	7	8	
	STEP 3 - 1ST DECREMENT									
INPUT DATA	a1	b1	c1	d1	e1	f1	g1	h1		
OUTPUT (TRANSPOSED) DATA	a1								<i>Fig.19C</i>	
COUNT	-1	0	1	2	3	4	5	6	_ '8'_'	
	STEP 4 - 1ST PAIR OF SHIFTS									
INPUT DATA	h2	a2	b2	c2	d2	e2	f2	g2		
OUTPUT (TRANSPOSED) DATA	a1								Fig.19D	
COUNT	-1	0	1	2	3	4	5	6	_ 36 _ 1 _	
		ST	EP 5	- TES	T (LO	AD A	2)			
INPUT DATA	h2	a2	b2	c2	d2	e2	f2	g2		
OUTPUT (TRANSPOSED) DATA	a1	a2							<i>Fig.19E</i>	
COUNT	-1	0	1	2	3	4	5	6	_ 36	
		STI	EP 6 -	2ND	DEC	REME	NT			
INPUT DATA	h2	a2	b2	c2	d2	e2	f2	g2		
OUTPUT (TRANSPOSED) DATA	a1	a2							Fig.19F	
COUNT	-2	-1	0	1	2	3	4	5	_ 30 _ 1 _	
		STE	7-2	2ND F	AIR C)F SH	IFTS			
INPUT DATA	g3	h3	a 3	b3	c3	d3	e3	f3		
OUTPUT (TRANSPOSED) DATA	a 1	a2							Fig.19G	
COUNT	-2	-1	0	1	2	3	4	5		

•

•

•
•
•

	STEP 8 - TEST (LOAD A3)										
	f3	e3	d3	с3	b3	a3	h3	g3	INPUT DATA		
Fig.19H						a3	a2	a1	OUTPUT (TRANSPOSED) DATA		
	5	4_	3	2	1	0	-1	-2	COUNT		
	STEP 9 - 3RD DECREMENT										
	f3	e3	d3	с3	b3	a3	h3	g3	INPUT DATA		
Fig.19I						a3	a2	a1	OUTPUT (TRANSPOSED) DATA		
0	4	3	2	1	0	-1	-2	-3	COUNT		
	STEP 22 - 7TH PAIR OF SHIFTS										
	a8	h8	g8	f8	e8	d8	с8	b8	INPUT DATA		
Fig.19J		a7	a6	a 5	a4	a3	a2	a 1	OUTPUT (TRANSPOSED) DATA		
_ '6'	0	7	-2	-3	-4	-5	-6	-7	COUNT		
		(8)	DAD A	ST (L(- TES	EP 23	ST				
	a8	h8	g8	f8	e8	d8	с8	b8	INPUT DATA		
Fig.19K	a8	a7	a6	a5	a4	a3	a2	a1	OUTPUT (TRANSPOSED) DATA		
	0	-1	-2	-3	-4	-5	-6	-7	COUNT		
		NT	REME	DEC	- 8TH	P 24	STE				
	a8	h8	g8	f8	e8	d8	c8	b8	INPUT DATA		
Fig.19L	a8	a7	a6	a5	a4	a3	a2	a1	OUTPUT (TRANSPOSED) DATA		
- 0	-1	-2	-3	-4	-5	-6	-7	-8	COUNT		